§ 302.5

APPENDIX B TO § 302.4—RADIONUCLIDES— Continued

Continuca			
Radionuclide	Atomic Number	Final RQ Ci (Bq)	
Thulium-162	69	1000 (3.7E 13)	
Thulium-166	69	10 (3.7E 11)	
Thulium-167	69	100 (3.7E 12)	
Thulium-170	69	10 (3.7E 11)	
Thulium-171	69	100 (3.7E 12)	
Thulium-172	69	100 (3.7E 12)	
Thulium-173	69	100 (3.7E 12)	
Thulium-175	69 50	1000 (3.7E 13) 100 (3.7E 12)	
Tin-110	50	100 (3.7E 12) 1000 (3.7E 13)	
Tin-113	50	10 (3.7E 13)	
Tin-117m	50	100 (3.7E 12)	
Tin-119m	50	10 (3.7E 11)	
Tin-121m	50	10 (3.7E 11)	
Tin-121	50	1000 (3.7E 13)	
Tin-123m	50	1000 (3.7E 13)	
Tin-123	50	10 (3.7E 11)	
Tin-125	50	10 (3.7E 11)	
Tin-126	50	1 (3.7E 10)	
Tin-127	50	100 (3.7E 12)	
Titonium 44	50	1000 (3.7E 13)	
Titanium-44	22 22	1 (3.7E 10) 1000 (3.7E 13)	
Titanium-45Tungsten-176	74	1000 (3.7E 13)	
Tungsten-177	74	100 (3.7E 13)	
Tungsten-178	74	100 (3.7E 12)	
Tungsten-179	74	1000 (3.7E 13)	
Tungsten-181	74	100 (3.7E 12)	
Tungsten-185	74	10 (3.7E 11)	
Tungsten-187	74	100 (3.7E 12)	
Tungsten-188	74	10 (3.7E 11)	
Uranium-230	92	1 (3.7E 10)	
Uranium-231	92	1000 (3.7E 13)	
Uranium-232	92	0.01 (3.7E 8)	
Uranium-233	92 92	0.1 (3.7E 9) 0.1 (3.7E 9)	
Uranium-234¢ Uranium-235¢	92	0.1 (3.7E 9) 0.1 (3.7E 9)	
Uranium-235¢ Uranium-236	92	0.1 (3.7E 9)	
Uranium-237	92	100 (3.7E 12)	
Uranium-238¢	92	0.1& (3.7E 9)	
Uranium-239	92	1000 (3.7E 13)	
Uranium-240	92	1000 (3.7E 13)	
Vanadium-47	23	1000 (3.7E 13)	
Vanadium-48	23	10 (3.7E 11)	
Vanadium-49	23	1000 (3.7E 13)	
Xenon-120	54	100 (3.7E 12)	
Xenon-121	54	10 (3.7E 11)	
Xenon-122	54	100 (3.7E 12)	
Xenon-123	54	10 (3.7E 11)	
Xenon-125 Xenon-127	54 54	100 (3.7E 12) 100 (3.7E 12)	
Xenon-129m	54	100 (3.7E 12)	
Xenon-131m	54	1000 (3.7E 13)	
Xenon-133m	54	1000 (3.7E 13)	
Xenon-133	54	1000 (3.7E 13)	
Xenon-135m	54	10 (3.7E 11)	
Xenon-135	54	100 (3.7E 12)	
Xenon-138	54	10 (3.7E 11)	
Ytterbium-162	70	1000 (3.7E 13)	
Ytterbium-166	70	10 (3.7E 11)	
Ytterbium-167	70	1000 (3.7E 13)	
Ytterbium-169	70	10 (3.7E 11)	
Ytterbium-175	70 70	100 (3.7E 12) 1000 (3.7E 13)	
Ytterbium-177Ytterbium-178	70 70		
Yttrium-86m	39	1000 (3.7E 13) 1000 (3.7E 13)	
Yttrium-86	39	1000 (3.7E 13) 10 (3.7E 11)	
Yttrium-87	39	10 (3.7E 11) 10 (3.7E 11)	
Yttrium-88	39	10 (3.7E 11)	
Yttrium-90m	39	100 (3.7E 12)	
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APPENDIX B TO § 302.4—RADIONUCLIDES— Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Yttrium-90	39	10 (3.7E 11)
Yttrium-91m	39	1000 (3.7E 13)
Yttrium-91	39	10 (3.7E 11)
Yttrium-92	39	100 (3.7E 12)
Yttrium-93	39	100 (3.7E 12)
Yttrium-94	39	1000 (3.7E 13)
Yttrium-95	39	1000 (3.7E 13)
Zinc-62	30	100 (3.7E 12)
Zinc-63	30	1000 (3.7E 13)
Zinc-65	30	10 (3.7E 11)
Zinc-69m	30	100 (3.7E 12)
Zinc-69	30	1000 (3.7E 13)
Zinc-71m	30	100 (3.7E 12)
Zinc-72	30	100 (3.7E 12)
Zirconium-86	40	100 (3.7E 12)
Zirconium-88	40	10 (3.7E 11)
Zirconium-89	40	100 (3.7E 12)
Zirconium-93	40	1 (3.7E 10)
Zirconium-95	40	10 (3.7E 11)
Zirconium-97	40	10 (3.7E 11)

to 130 while 1.3E 3 is equal to 1300.

m—Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.

\$\phi\$—Notification requirements for releases of mixtures or solutions of radionuclides can be found in \$302.6(b) of this rule. Final RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

[54 FR 33449, Aug. 14, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §302.4, see the List of CFR Sections Affected in the Finding Aids section of this volume.

EFFECTIVE DATE NOTE: At 63 FR 24627, May 4, 1998, § 302.4 was amended by adding to table 302.4 entries for "2,4,6-tribromophenol" and "K140", and by adding to appendix A the entry for "118796", effective Nov. 4, 1998.

§ 302.5 Determination of reportable quantities.

(a) Listed hazardous substances. The quantity listed in the column "Final RQ" for each substance in table 302.4, or in appendix B to table 302.4, is the

reportable quantity (RQ) for that substance. The RQs in table 302.4 are in units of pounds based on chemical toxicity, while the RQs in appendix B to table 302.4 are in units of curies based on radiation hazard. Whenever the RQs in table 302.4 and appendix B to the table are in conflict, the lowest RQ shall apply.

(b) Unlisted hazardous substances. Unlisted hazardous substances designated by 40 CFR 302.4(b) have the reportable quantity of 100 pounds, except for those unlisted hazardous wastes which exhibit extraction procedure (EP) toxicity identified in 40 CFR 261.24. Unlisted hazardous wastes which exhibit EP toxicity have the reportable quantities listed in table 302.4 for the contaminant on which the characteristic of EP toxicity is based. The reportable quantity applies to the waste itself, not merely to the toxic contaminant. If an unlisted hazardous waste exhibits EP toxicity on the basis of more than one contaminant, the reportable quantity for that waste shall be the lowest of the reportable quantities listed in table 302.4 for those contaminants. If an unlisted hazardous waste exhibits the characteristic of EP toxicity and one or more of the other characteristics referenced in 40 CFR 302.4(b), the reportable quantity for that waste shall be the lowest of the applicable reportable quantities.

 $[51\ FR\ 34547,\ Sept.\ 29,\ 1987,\ as\ amended\ at\ 54\ FR\ 22538,\ May\ 24,\ 1989]$

§ 302.6 Notification requirements.

- (a) Any person in charge of a vessel or an offshore or an onshore facility shall, as soon as he has knowledge of any release (other than a federally permitted release or application of a pesticide) of a hazardous substance from such vessel or facility in a quantity equal to or exceeding the reportable quantity determined by this part in any 24-hour period, immediately notify the National Response Center ((800) 424-8802; in Washington, DC (202) 426-2675).
- (b) Releases of mixtures or solutions (including hazardous waste streams) of
- (1) Hazardous substances, except for radionuclides, are subject to the following notification requirements:

- (i) if the quantity of all of the hazardous constituent(s) of the mixture or solution is known, notification is required where an RQ or more of any hazardous constituent is released; or
- (ii) if the quantity of one or more of the hazardous constituent(s) of the mixture or solution is unknown, notification is required where the total amount of the mixture or solution released equals or exceeds the RQ for the hazardous constituent with the lowest RQ.
- (2) Radionuclides are subject to this section's notification requirements only in the following circumstances:
- (i) If the identity and quantity (in curies) of each radionuclide in a released mixture or solution is known, the ratio between the quantity released (in curies) and the RQ for the radionuclide must be determined for each radionuclide. The only such releases subject to this section's notification requirements are those in which the sum of the ratios for the radionuclides in the mixture or solution released is equal to or greater than one.
- (ii) If the identity of each radionuclide in a released mixture or solution is known but the quantity released (in curies) of one or more of the radionuclides is unknown, the only such releases subject to this section's notification requirements are those in which the total quantity (in curies) of the mixture or solution released is equal to or greater than the lowest RQ of any individual radionuclide in the mixture or solution.
- (iii) If the identity of one or more radionuclides in a released mixture or solution is unknown (or if the identity of a radionuclide released by itself is unknown), the only such releases subject to this section's notification requirements are those in which the total quantity (in curies) released is equal to or greater than either one curie or the lowest RQ of any known individual radionuclide in the mixture or solution, whichever is lower.
- (c) The following categories of releases are exempt from the notification requirements of this section:
- (1) Releases of those radionuclides that occur naturally in the soil from land holdings such as parks, golf courses, or other large tracts of land.